ZEVpoint

Swift Pro SERIES AC CHARGER

Instruction Manual

Catalogue

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1.Summary

Swift Pro SERIES AC charger is designed to use with electric vehicle on-board charger. Equipped with color display and suitable for floor and wall mounted installation, it allows for plug and play charging, and supports charging amount recording. This basic charger has a wide range of applications and is suitable for apartments buildings, shopping malls and workplace. It can be installed in various electric vehicle charging stations to provide convenient and safe charging services for electric vehicle drivers.

2.Environment Conditions

Operating temperature : -25℃ ~ +55℃
Storage temperature : -40℃ ~ +70℃
Altitude : < 2000 m
Operating humidity : 5% ~ 95%RH,non-condensing

3.Product Picture and Interface Description

3.1 Exterior Drawing of Charger

Fig 1 outline drawing

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3.2 External Dimensions of Charger

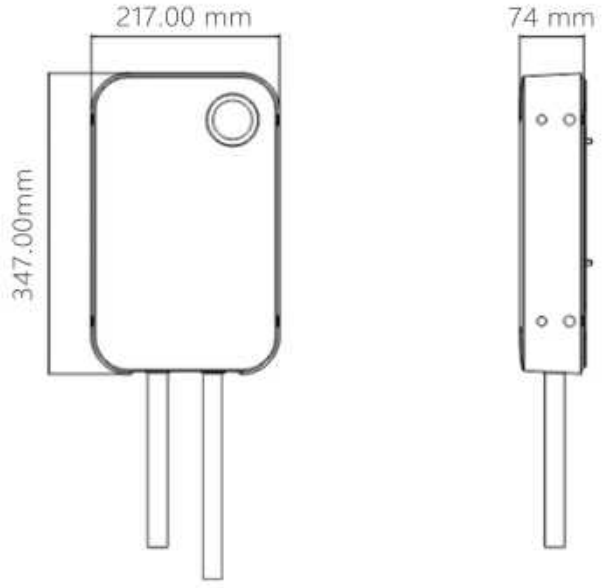

Fig 2 Dimensions drawing of charger

4.Installation Methods

4.1 Installation of Wall Mount Charger

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1. Drill holes according to the reference paper and remove the reference paper afterwards.

2. Put the plastic plugs into the holes to install the expansion screws.

3. Align the mounting plate with the holes and fix it on the wall using M5*30 expansion screws.

4. Referring to the first and second steps, fix the plug base at about 0.2m below the charger.

5. Align the main body of the charger with the buckle and install it on the hanging plate using the M5*10 machine screw. Then plug the delivered waterproof plug.

6. Connect cables to the power grid according to the sequence of the cable bar. The installation is complete.

Mode C users refer to the first six figures and Mode A users all the figures.

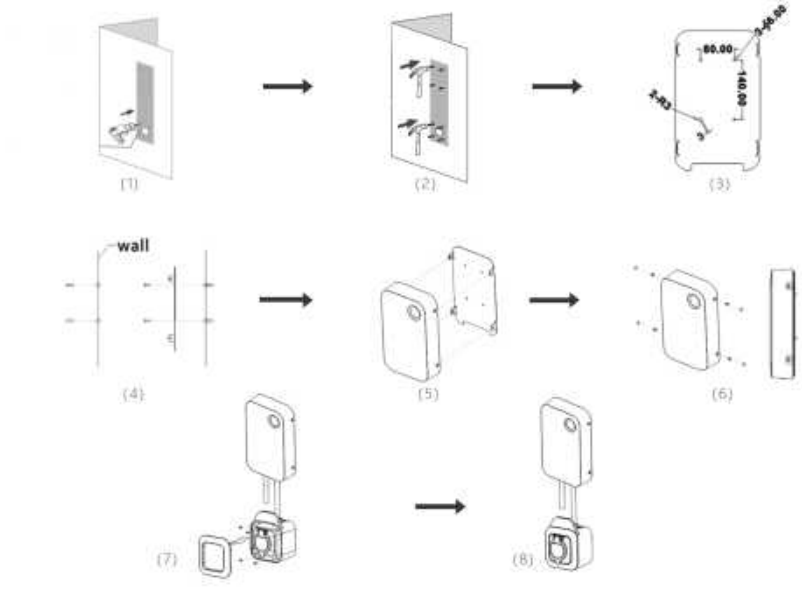

Fig 3 Installation drawing of wall mount charger

4.2 Charger Input Power Interface

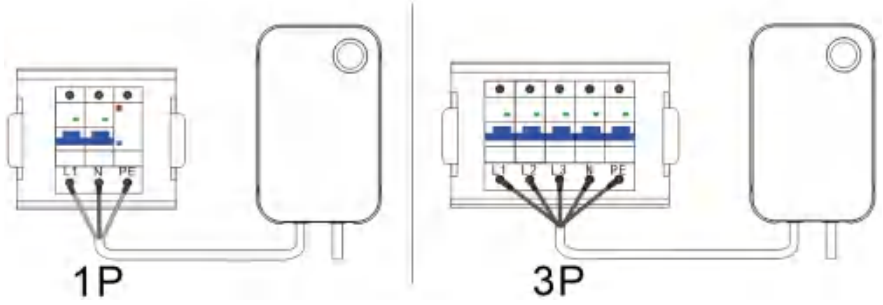

Fig 5 Charger input power interface

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Connect the incoming cable configured for the charger to the corresponding interface according to the identification: connect the Single-phase 230V to L1, N and PE.

Tip: Select the input cable according to the maximum current of the charger: 2.5mm² cable is required for 16A charger; 6mm² cable is required for 32A charger.

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5. Technical Parameters

Specifications	MODEL	ZPAC02-7.2kW
Appearance material	Product Name	Swift Pro AC CHARGER
	Shell Material	ABS+PC Plastic shell
	Routing Mode	Inlet cable to box bottom Outlet cable from box bottom
	Charging Interface	Charging Connector
	External Dimensions of Charger Station	347*217*74mm
	Weight	6.5kg
Electrical Indicators	Input Voltage	230V
	Input Current	32A
	Frequency	50Hz /60Hz
	Phase	Single Phase
	Maximum Power	7.2KW
	Metering Function	Yes
	Measuring Accuracy	class 2
	Output Voltage	230V±10%
	Output Current	32A
	Standby Power	≤10W
	Standard	EN 61851-1:2019
	MTBF	100,000 hours
IEnvironmental Indicators	Applicable Scene	Outdoor / Indoor
	Operating Temperature	-25℃ ~ +55℃
	Operating Humidity	5% ~ 95%
	Altitude	< 2000m
	IP Rating	IP66
Safety protection	Over-voltage Protection	Yes
	Under-voltage Protection	Yes
	Overload Protection	Yes
	Short Circuit Protection	Yes
	Leakage Protection	Yes
	Ground Fault Protection	Yes
	Over Temperature Protection	Yes
	Lightning Protection	Yes
	LED Light	Yes
Human-computer interaction	RFID	Only available on RFID Version
	APP	Only available on APP Version
	Touch Screen	Yes

Table 1 Technical parameters

6. Charging Status Indicator

State	Power (Cyan)	Connected (Green)	Charging (Green)	Fault (Red)
Stand By	On	Off	Off	Off
Connected	On	On	Off	Off
Charging	Off	Off	Breathing	Off
Fault	NA	NA	NA	On

Fig 10 Color status diagram of charging status indicator

The charging will not continue when short circuit protection fault and leakage protection fault occur, and can be recovered only after the charging plug is unplugged and plugged in again; other faults do not need to plug in and unplug the charging plug, and the charging will resume automatically after the fault is recovered.

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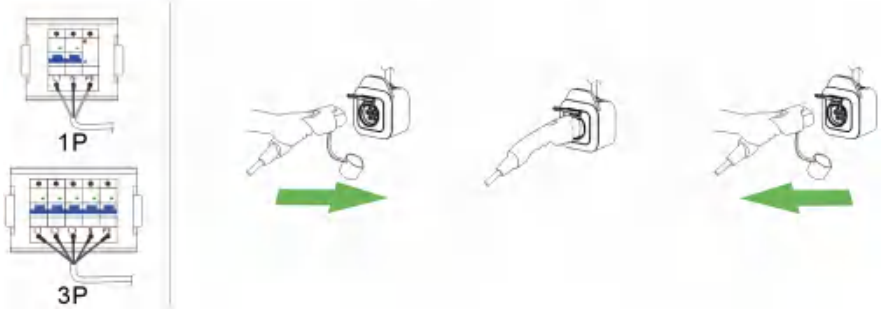
7. Instructions for Use

Choose different starting methods according to the specifications of charger:

7.1 Plug and Play



1. Make sure the charger is connected to power.

2. Connect the EV and the charger with the EV charging plug.

3. After inserting the charging plug, when the indicator light of the charger is green and in the breathing state, it indicates that the charger automatically enters the charging state.

4. When you need to complete charging, just pull out the charging plug.

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7.2 Charger Password setting

The charger has an password function for locking. This function is turn off as default. We suggest you turn on this function to prevent the unauthorized using, especially the outdoor users.

You can turn on the password function by the touch screen as follow steps. Choose the "SETTING" home page, page down to the "Password" selection. Then you can turn on the password function, setting or change the password. "123456" would be the defaulted password.

Standby page **Home page** **Function list**

Password function Password Turn on/off Setting page

Password Input pag

8. Man Machine Operation Page of Color Display Screen

Charger start page

8.1 Illustration of Screen

8.2 Charging Tutorial

The quick tutorial is shown in the following figure. You can complete one charge by operating in sequence (from left to right and from top to bottom):

Plug to be inserted

Charging standby

Charging

Full-charging

Plug to be pulled out after finishing charging

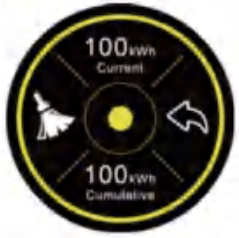
8.3 Other Settings Page

Current setting

Time booking

Charging time setting

Current saving



Accumulated electricity setting

Multi function setting

Booking display

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8.4 Fault Pause Page

If the system is abnormal, a fault will be prompted, as shown in the following figure:

For serious faults, the system cannot recover automatically. In order to remind the user of this fault, the system will automatically count down 10 seconds to restart after the user pulls out the plug.

Leakage Protection

1.Check whether there are foreign material or water on the charging plug and socket, which could cause leakage.
2.Try to re-charge the vehicle. If it still shows the leakage and the car works well, the charger needs to be deactivated.

Short Circuit

1.Check the currently selected rated output power, choose a larger current and try to restart.
2.Check whether the charging function of the vehicle works well. If the vehicle has no problems, the charger needs to be deactivated.

Over Current

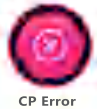
1.Check the currently selected rated output power, choose a larger current and try to restart.
2.Check whether the charging function of the vehicle works well. If the vehicle has no problems, the charger needs to be deactivated.

Over Voltage

The input voltage is too high.
1.Use a multimeter to confirm whether the voltage is too high.
2.Try to charge for the other time.
3.Add a voltage regulator.

Over Temperature

Try to re-charge the vehicle. If it still shows the over temperature, the charger needs to be deactivated.



CP Error

The communication error between the car and the charger.
1.Try to re-plug connector and confirm the plug is completely inserted.
2.Try another charger. If it still doesn' t work, please go to the auto 4S shop to check whether the charger function of the vehicle is well.

Ungrounded

The input power is not grounded.
Check whether the input PE ground wire is good.

9. Caution of Using

DANGER!

Failure to follow instructions may result in danger.

- Please use the charging stand only when the technology operates in a normal and secure way;
- Children are prohibited from touching charger;
- Install a charger away from pyrotechnics , dust and corrosive occasions;
- The output of the charger has a high voltage, so you must pay attention to personal safety when using it;
- If the charger fails , there is a danger of electric shock and even death . Under emergency situations , you can cut off the power supply;
- Do not disassemble the charger during the use.

10. About Maintenance

The product is already packed in the factory , and during transportation , strong impact and bumps should be avoided to protect the outer packaging of the product from damage. The product should be placed at an ambient temperature of -40℃ ~ + 70℃ and a relative humidity of no more than 95% . The ambient air should not contain acids , alkalis or other corrosive gases and explosive gases , and it should be protected from rain , snow , wind and sand.

11. Security Warnings

WARNING!

Failure to follow instructions may result in danger!

- Regularly check whether the charger has visible damage , and there may be a electric shock hazard when operating the damaged charger.
- Make sure that all safety facilities are available at all times and test regularly to ensure proper operation;
- If a ground fault occurs , inspect the charger only after confirming that there is no high-voltage power in the system. All these operations are based on the assumption that the base’ s cable carries voltage.
- People who install and use charger must observe the principles and regulations to ensure the personal safety and equipment safety.
- Before powering on the device , please confirm that the device is properly grounded to avoid unnecessary accidents.
- All tools used do not need exposed metal parts should be insulated to prevent exposed metal parts from touching the metal frame , causing a short circuit.
- Do not modify , retrofit , or change any part by yourself under any circumstances.
- To make sure service life and stable operation, the environment for use of the equipment should be kept as clean , constant temperature and humidity as possible . The charger must not be used in the presence of volatile gas or flammable atmosphere.
- Be sure to confirm that the input voltage , frequency , circuit breakers and other conditions of the device have already met the specifications before the device is powered on.
- This product needs to be installed by authorized personnel.
- Need to check if it meets local regulatory requirements before use.
- The height requirement for hanging a plug is 0.4-1.5m above ground level.

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12. Warranty

12.1 Warranty Conditions

When the product leaves the factory, the user completely abides by the storage, installation and use rules specified in this instruction.

After the product leaves the factory, due to transportation reasons, the user finds that the product or supporting parts were damaged during the unpacking inspection.

12.2 Guarantee Time

The product quality is guaranteed for 24 months from the date of delivery.

12.3 Warranty Method

During the warranty period, the manufacturer is responsible for replacement or repair.

Beyond the warranty period, the user shall negotiate with the manufacturer to replace or repair in a paid way.

This manual is subject to change without notice.

If the contents of this manual do not conform to the real object, please refer to the real object.

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